TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR BITUMINOUS CONCRETE

Date. :24-2-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH
Location :Shabari Nagar Cross Road
Material description : Bituminous Concrete
Sample :24-2-2023
Date of testing :24-2-2023

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	469	472
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	31.00	28.00
7. Bitumen content in %	6.20	5.60
8. Average	**5.90**	

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Total Wt. of Aggregates in gms 469

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	30.6	30.6	6.52	93.48	90- 100
9.5	65.4	96	20.47	79.53	70 - 88
4.75	92.6	188.6	40.21	59.79	53 - 71
2.36	81.5	270.1	57.59	42.41	42 - 58
1.18	37.7	307.8	65.63	34.37	34 - 48
0.6	27.9	335.7	71.58	28.42	26 - 38
0.3	41.1	376.8	80.34	19.66	18 - 28
0.15	27.5	404.3	86.20	13.80	12 - 20
0.075	35.5	439.8	93.77	6.23	4 - 10

Total Wt. of Aggregates in gms 472

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	32.5	32.5	6.89	93.11	90- 100
9.5	46.6	79.1	16.76	83.24	70 - 88
4.75	85.7	164.8	34.92	65.08	53 - 71
2.36	72.6	237.4	50.30	49.70	42 - 58
1.18	67.6	305	64.62	35.38	34 - 48
0.6	35.1	340.1	72.06	27.94	26 - 38
0.3	34.5	374.6	79.36	20.64	18 - 28
0.15	30.6	405.2	85.85	14.15	12 - 20
0.075	36.7	441.9	93.62	6.38	4 - 10

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TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR BITUMINOUS CONCRETE

Date. :11-03-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH
Location :Ex Serviceman Road
Material description : Bituminous Concrete
Sample :11-03-2023
Date of testing :11-03-2023

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	470.5	469
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	29.50	31.00
7. Bitumen content in %	5.90	6.20
8. Average	**6.05**	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Total Wt. of Aggregates in gms 470.5

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	30.6	30.6	6.50	93.50	90- 100
9.5	65.1	95.7	20.34	79.66	70 - 88
4.75	83.5	179.2	38.09	61.91	53 - 71
2.36	58.3	237.5	50.48	49.52	42 - 58
1.18	43.1	280.6	59.64	40.36	34 - 48
0.6	26.5	307.1	65.27	34.73	26 - 38
0.3	49.7	356.8	75.83	24.17	18 - 28
0.15	36.2	393	83.53	16.47	12 - 20
0.075	44.2	437.2	92.92	7.08	4 - 10

Total Wt. of Aggregates in gms 469

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	32.2	32.2	6.87	93.13	90- 100
9.5	45.5	77.7	16.57	83.43	70 - 88
4.75	86.5	164.2	35.01	64.99	53 - 71
2.36	65.4	229.6	48.96	51.04	42 - 58
1.18	79.6	309.2	65.93	34.07	34 - 48
0.6	28.6	337.8	72.03	27.97	26 - 38
0.3	35.3	373.1	79.55	20.45	18 - 28
0.15	23.8	396.9	84.63	15.37	12 - 20
0.075	55.3	452.2	96.42	3.58	4 - 10

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ರಾಜರಾಜೇಶ್ವರಿನಗರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿನಗರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-98

TEST REPORT ON GRADATION

Date. :23-02-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2020, MORTH Table 500-17
Material description : Bituminous Concrete
Date of Reciept of Sample :23-02-2023
Date of testing :23-02-2023

TEST RESULTS

Total Wt. of Aggregates in gms 5100

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	219	219	4.29	95.71	90- 100
9.5	725	944	18.51	81.49	70 - 88
4.75	855	1799	35.27	64.73	53 - 71
2.36	419	2218	43.49	56.51	42 - 58
1.18	528	2746	53.84	46.16	34 - 48
0.6	551	3297	64.65	35.35	26 - 38
0.3	442	3739	73.31	26.69	18 - 28
0.15	492	4231	82.96	17.04	12 - 20
0.075	450	4681	91.78	8.22	4 - 10

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

TEST REPORT ON GRADATION

Date. :10-03-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2020, MORTH Table 500-17
Location : Ex Seviceman Road
Material description : Bituminous Concrete
Sample :10-03-2023
Date of testing :10-03-2023

TEST RESULTS

Total Wt. of Aggregates in gms 5100

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-17
19	0	0	0	100	100
13.2	221	221	4.33	95.67	90- 100
9.5	730	951	18.65	81.35	70 - 88
4.75	855	1806	35.41	64.59	53 - 71
2.36	430	2236	43.84	56.16	42 - 58
1.18	519	2755	54.02	45.98	34 - 48
0.6	535	3290	64.51	35.49	26 - 38
0.3	445	3735	73.24	26.76	18 - 28
0.15	455	4190	82.16	17.84	12 - 20
0.075	452	4642	91.02	8.98	4 - 10

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಬಿ.ಎ., ಬೆಂಗಳೂರು-24

TEST REPORT ON AGGREGATE IMPACT VALUE

Date. :23-2-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2020, MORTH Table 500-17
Material description : Bituminous Concrete
Date of Reciept of Sample :23-2-2023
Date of testing :23-2-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	374	377	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	82	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	292	296	
4	Aggregate Impact value = percent fines	21.96	21.93	21.49	
	100* (W_2/W_1)%				21.79

Remarks: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Notes:-
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬಂಗಳೂರು-24

TEST REPORT ON AGGREGATE IMPACT VALUE

Date. :10-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2020, MORTH Table 500-17
Material description : Bituminous Concrete
Date of Reciept of Sample :10-3-2023
Date of testing :10-3-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	372	375	378	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	85	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	290	290	297	
4	Aggregate Impact value = percent fines	22.04	22.67	21.43	
	100* (W_2/W_1)%				**22.05**

Remarks: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON BITUMEN

Date. :23-2-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 73 -2013
Material description : VG 30 Bitumen
Date of Reciept of Sample :23-2-2023
Date of testing :23-2-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	58	Min 45
2	Softening point, ^{0}C	49	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	365	Min. 220

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON BITUMEN

Date. :10-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 73 -2013
Material description : VG 30 Bitumen
Date of Reciept of Sample :10-3-2023
Date of testing :10-3-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	59	Min 45
2	Softening point, ^{0}C	47	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	361	Min. 220

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಬಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON FLAKINESS & ELONGATION

Date. :23-2-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura, Beng 560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Ba Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Reciept of Sample :23-2-2023

Date of testing :23-2-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 500-17
1	Flakiness Index	16.50%	Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%
2	Elongation Index	11.55%	
	Combined Flakiness & Elongation	**28.05%**	

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON FLAKINESS & ELONGATION

Date.	:10-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura, Beng 560097
Project Name	: Improvements to Roads and Drains at Hegadenagara Eastern Side B Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	: EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS:2386(part 1)-1963 RA 2016, MORTH Table 500-17
Material description	: Bituminous Concrete
Date of Reciept of Sample	:10-3-2023
Date of testing	:10-3-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 500-17
1	Flakiness Index	16.00%	Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%
2	Elongation Index	11.20%	
	Combined Flakiness & Elongation	**27.20%**	

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-17

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date. :23-2-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** :M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name :Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-17
Material description : Bituminous Concrete
Date of Reciept of Sample :23-2-2023
Date of testing :23-2-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3735.0	3736.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2455.0	2467.0
3	Weight of Saturarted aggregate in water (in gms) = (A1-A2)	A	1280.0	1269.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2008	2009
5	Weight of oven dry Aggregate (in gms)	C	1996.5	1997.0

Result :	1. Specific gravity = (C/B-A)	2.74	2.70
	2. Water Absorption in Percentage = (B-C*100/C)	0.58	0.60

Remarks: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬಂಗಳೂರು-24

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date. :10-3-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** :M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name :Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-17

Material description : Bituminous Concrete

Date of Reciept of Sample :10-3-2023

Date of testing :10-3-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3737.0	3736.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2454.0	2463.0
3	Weight of Saturarted aggregate in water (in gms) = (A1-A2)	A	1283.0	1273.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2006	2007
5	Weight of oven dry Aggregate (in gms)	C	1996.0	1997.0

Result :	1. Specific gravity = (C/B-A)	2.76	2.72
	2. Water Absorption in Percentage = (B-C*100/C)	0.50	0.50

Remarks: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON STABILITY OF MIX

Date. :23-2-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st

Project Name : Improvements to Roads and Drains at Eastern Western Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : MORTH Table 500-17

Material description : Bituminous Concrete

Date of Reciept of Sample :23-2-2023

Date of testing :23-2-2023

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.81	10.16	9 Kn (min)
2	Marshal flow, mm	2.56	2.47	2 – 4
3	Percent air voids in Mix	12.13	12.51	11 – 13
4	Percent voids in mineral aggregates	4.35	4.18	3 – 5
5	Percent voids filled with Bitumen	69.79	69.53	65 - 75
6	Density, g/cc	2.24	2.26	-

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON STABILITY OF MIX

Date. :10-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Eastern Western Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : MORTH Table 500-17
Material description : Bituminous Concrete
Date of Reciept of Sample :10-3-2023
Date of testing :10-3-2023

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.83	10.11	9 Kn (min)
2	Marshal flow, mm	2.55	2.25	2 – 4
3	Percent air voids in Mix	12.19	12.54	11 – 13
4	Percent voids in mineral aggregates	4.34	4.16	3 – 5
5	Percent voids filled with Bitumen	68.44	69.53	65 - 75
6	Density, g/cc	2.23	2.25	-

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ಬಿ.ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

DETERMINATION OF RATE OF SPREAD TACK COAT

Date. :24-2-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura, Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Location :Shabari Nagar Cross Road
Date of testing :24-2-2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2029	0.2029
Intial Wt of empty Plate (b)	Kg	1.627	1.628
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.686	1.687
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0590	0.0590
Rate of spread of prime /tack coat	kg/Sq.m	0.291	0.291
Average	kg/Sq.m	0.291	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪ., ಬೆಂಗಳೂರು-26

DETERMINATION OF RATE OF SPREAD TACK COAT

Date. :11-03-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura, Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Location :Ex ServiceMan Road
Date of testing :11-03-2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2027	0.2027
Intial Wt of empty Plate (b)	Kg	1.626	1.628
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.685	1.687
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0590	0.0590
Rate of spread of prime /tack coat	kg/Sq.m	0.291	0.291
Average	kg/Sq.m	0.291	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

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ಬಿ.ಬಿ.ಬಿ.ಎಂ., ಬೆಂಗಳೂರು-24

TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR DENSE GRADED BITUMINOUS MACADAM

Date. :24-02-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

Location : Shabari Nagara Main Road

Source of Sample : At Site

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH

Material description : Dense Graded Bituminous Macadam

Date of Reciept of Sample :24-02-2023

Date of testing :24-02-2023

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	476	478
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	24	22.00
7. Bitumen content in %	4.80	4.40
8. Average	4.60	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Total Wt. of Aggregates in gms 476

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	32.5	32.5	6.83	93.17	90 - 100
19	51.2	83.7	17.58	82.42	71 - 95
13.2	36.8	120.5	25.32	74.68	56 - 80
4.75	125.2	245.7	51.62	48.38	38 - 54
2.36	68.5	314.2	66.01	33.99	28 - 42
0.3	85.9	400.1	84.05	15.95	7 - 21
0.075	45.3	445.4	93.57	6.43	2 - 8

Total Wt. of Aggregates in gms 478

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	31.4	31.4	6.57	93.43	90 - 100
19	58.6	90	18.83	81.17	71 - 95
13.2	36.2	126.2	26.40	73.60	56 - 80
4.75	129.5	255.7	53.49	46.51	38 - 54
2.36	62.9	318.6	66.65	33.35	28 - 42
0.3	82.4	401	83.89	16.11	7 - 21
0.075	55.5	456.5	95.50	4.50	2 - 8

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಡ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON BITUMEN CONTENT AND GRADATION FOR DENSE GRADED BITUMINOUS MACADAM

Date. :08-03-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

Location : Ex Serviceman Road

Source of Sample : At Site

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, AASHTO T 164 & AASHTO T 30 & MORTH

Material description : Dense Graded Bituminous Macadam

Date of Reciept of Sample :08-03-2023

Date of testing :08-03-2023

TEST RESULTS

BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	477	476.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	23	23.50
7. Bitumen content in %	4.60	4.70
8. Average	4.65	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Total Wt. of Aggregates in gms 477

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	31.5	31.5	6.60	93.40	90 - 100
19	52.2	83.7	17.55	82.45	71 - 95
13.2	35.9	119.6	25.07	74.93	56 - 80
4.75	125.6	245.2	51.40	48.60	38 - 54
2.36	68.4	313.6	65.74	34.26	28 - 42
0.3	85.6	399.2	83.69	16.31	7 - 21
0.075	48.4	447.6	93.84	6.16	2 - 8

Total Wt. of Aggregates in gms 476.5

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	32.6	32.6	6.84	93.16	90 - 100
19	59.6	92.2	19.35	80.65	71 - 95
13.2	36.5	128.7	27.01	72.99	56 - 80
4.75	129.8	258.5	54.25	45.75	38 - 54
2.36	64.5	323	67.79	32.21	28 - 42
0.3	83.5	406.5	85.31	14.69	7 - 21
0.075	54.4	460.9	96.73	3.27	2 - 8

Notes:-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON GRADATION

Date. :23-02-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

Location : Shabari Nagar Main Road

Source of Sample : At Site

Technical Reference : IS 2720 (Part-4)- 1985 RA 2016, MORTH Table 500-10

Material description : Dense Graded Bituminous Macadam

Date of Reciept of Sample :23-02-2023

Date of testing :23-02-2023

TEST RESULTS

Total Wt. of Aggregates in gms 13124

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	496	496	3.78	96.22	90 - 100
19	2361	2857	21.77	78.23	71 - 95
13.2	2569	5426	41.34	58.66	56 - 80
4.75	2648	8074	61.52	38.48	38 - 54
2.36	1386	9460	72.08	27.92	28 - 42
0.3	2390	11850	90.29	9.71	7 - 21
0.075	645	12495	95.21	4.79	2 - 8

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-10, Grading II

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON GRADATION

Date. :07-03-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
Location : Ex Serviceman Road
Source of Sample : At Site
Technical Reference : IS 2720 (Part-4)- 1985 RA 2016, MORTH Table 500-10
Material description : Dense Graded Bituminous Macadam
Date of Reciept of Sample :07-03-2023
Date of testing :07-03-2023

TEST RESULTS

Total Wt. of Aggregates in gms 13124

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 500-10
37.5	0	0	0	100	100
26.5	491	491	3.74	96.26	90 - 100
19	2351	2842	21.65	78.35	71 - 95
13.2	2571	5413	41.25	58.75	56 - 80
4.75	2651	8064	61.44	38.56	38 - 54
2.36	1389	9453	72.03	27.97	28 - 42
0.3	2392	11845	90.25	9.75	7 - 21
0.075	647	12492	95.18	4.82	2 - 8

Remarks: The above tested sample satisfies MORTH Specifications as per Table 500-10, Grading II

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

TEST REPORT ON AGGREGATE IMPACT VALUE

Date. :23-2-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH table 500-10
Material description : Dense Graded Bituminous Macadam
Date of Reciept of Sample :23-2-2023
Date of testing :23-2-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	383	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	91	90	92	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	293	294	
4	Aggregate Impact value = percent fines	23.51	23.50	23.83	
	100* (W_2/W_1)%				**23.62**

Remarks : Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27%

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON AGGREGATE IMPACT VALUE

Date. :07-3-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH table 500-10
Material description : Dense Graded Bituminous Macadam
Date of Reciept of Sample :07-3-2023
Date of testing :07-3-2023

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	392	389	390	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	91	90	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	299	301	
4	Aggregate Impact value = percent fines	23.21	23.14	22.82	
	100* (W_2/W_1)%				**23.06**

Remarks : Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27%

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

DETERMINATION OF RATE OF SPREAD PRIME COAT

Date. :23-2-2023

***Client Name** : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

Contractor Name : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

Location :Shabari Nagar Main Road

PMC Name : Shiprama Consulting Engineers

Date of testing :23-2-2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2023	0.2023
Intial Wt of empty Plate (b)	Kg	1.628	1.629
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.768	1.768
Weight of Prime/Tack Coat (d=c-b)	Kg	0.1400	0.1390
Rate of spread of prime /tack coat	kg/Sq.m	0.692	0.687
Average	kg/Sq.m	0.690	
Specified Limit	kg/Sq.m	0.60 Kg/sq.m	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

DETERMINATION OF RATE OF SPREAD PRIME COAT

Date. :07-3-2023
***Client Name** : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
Contractor Name : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
Location : Ex Seviceman Road
PMC Name : Shiprama Consulting Engineers
Date of testing :07-3-2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Intial Wt of empty Plate (b)	Kg	1.629	1.629
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.768	1.768
Weight of Prime/Tack Coat (d=c-b)	Kg	0.1390	0.1390
Rate of spread of prime /tack coat	kg/Sq.m	0.686	0.686
Average	kg/Sq.m	0.686	
Specified Limit	kg/Sq.m	0.60 Kg/sq.m	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON BITUMEN

Date. :23-2-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 73 -2013

Material description : VG 30 Bitumen

Date of Reciept of Sample :23-2-2023

Date of testing :23-2-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Dense Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	57	Min 45
2	Softening point, ^{0}C	49	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	364	Min. 220

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON BITUMEN

Date. :07-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 73 -2013
Material description : VG 30 Bitumen
Date of Reciept of Sample :07-3-2023
Date of testing :07-3-2023

TEST RESULTS

The results of the tests conducted on the bitumen sample using for Dense Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	59	Min 45
2	Softening point, ^{0}C	47	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	361	Min. 220

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON FLAKINESS & ELONGATION

Date. :23-2-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-13

Material description : Dense graded Bituminous Macadam

Date of Reciept of Sample :23-2-2023

Date of testing :23-2-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Flakiness Index	16.20%	Maximum allowable Flakiness & Elongat Dense graded Bituminous Macadam is 35%
2	Elongation Index	11.35%	
	Combined Flakiness & Elongation	**27.55%**	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON FLAKINESS & ELONGATION

Date.	:07-3-2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name	: Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	:EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS:2386(part 1)-1963 RA 2016, MORTH Table 400-13
Material description	: Dense graded Bituminous Macadam
Date of Reciept of Sample	:07-3-2023
Date of testing	:07-3-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Flakiness Index	16.35%	Maximum allowable Flakiness & Elongat Dense graded Bituminous Macadam is 35%
2	Elongation Index	11.10%	
	Combined Flakiness & Elongation	**27.45%**	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date. :23-2-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-10
Material description : Dense Graded Bituminous Macadam
Date of Reciept of Sample :23-2-2023
Date of testing :23-2-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3721.0	3722.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2475.0	2473.0
3	Weight of Saturarted aggregate in water (in gms) = (A1-A2)	A	1246.0	1249.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2007	2008
5	Weight of oven dry Aggregate (in gms)	C	1996.0	1998.0

Result :	1. Specific gravity = (C/B-A)	2.62	2.63
	2. Water Absorption in Percentage = (B-C*100/C)	0.55	0.50

Remarks: Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%

Notes:-

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

End of the Report ***

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

Date. :07-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-4)- 1963 RA 2016, MORTH Table 500-10
Material description : Dense Graded Bituminous Macadam
Date of Reciept of Sample :07-3-2023
Date of testing :07-3-2023

TEST RESULTS

Total Wt. of Sample = 2000 gms

Sl. No.	Description	Notation	Test Result	
			Trail 1	Trail 2
1	Weight of Aggregate Suspended in water with the Basket (in gms)	A1	3723.0	3725.0
2	Weight of Empty Basket suspended in Water (in gms)	A2	2474.0	2473.0
3	Weight of Saturarted aggregate in water (in gms) = (A1-A2)	A	1249.0	1252.0
4	Weight of saturated surface dry aggregate in air (in gms)	B	2007	2008
5	Weight of oven dry Aggregate (in gms)	C	1996.5	1998.0

Result :	1. Specific gravity = (C/B-A)	2.63	2.64
	2. Water Absorption in Percentage = (B-C*100/C)	0.53	0.50

Remarks: Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON STABILITY OF MIX

Date. :23-2-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Estern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
Location : Hegadenagara Eastern Side
PMC Name : Shiprama Consulting Engineers
Technical Reference : MORTH Table 500-11
Material description : Dense Graded Bituminous Macadam
Date of Reciept of Sample :23-2-2023
Date of testing :23-2-2023

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH (Table 500-11)
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.9	9.7	9 Kn (min)
2	Marshal flow, mm	2.64	2.72	2 – 4
3	Percent air voids in Mix	3.63	3.85	3 – 5
4	Percent voids in mineral aggregates	11.73	11.61	10-12
5	Percent voids filled with Bitumen	70.15	70.25	65 – 75
6	Density, g/cc	2.25	2.27	-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON STABILITY OF MIX

Date. :07-3-2023
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Estern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
Location : Hegadenagara Eastern Side
PMC Name : Shiprama Consulting Engineers
Technical Reference : MORTH Table 500-11
Material description : Dense Graded Bituminous Macadam
Date of Reciept of Sample :07-3-2023
Date of testing :07-3-2023

TEST RESULTS

Sl.No	Description	Test Result		Requirement as per MORTH (Table 500-11)
		Trail 1	Trail 2	
1	Marshal Stability, Kn	9.7	9.72	9 Kn (min)
2	Marshal flow, mm	2.65	2.74	2 – 4
3	Percent air voids in Mix	3.65	3.85	3 – 5
4	Percent voids in mineral aggregates	11.71	11.55	10-12
5	Percent voids filled with Bitumen	70.18	70.4	65 – 75
6	Density, g/cc	2.26	2.27	-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :07-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Location :Shabari Nagara Mian Road

Material description : Wet Mix Macadam

Date of Reciept of :07-12-2022

Date of testing :07-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.75	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :07-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Location :Shabari Nagara Mian Road

Material description : Wet Mix Macadam

Date of Reciept of :07-12-2022

Date of testing :07-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.40	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :08-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers.

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Location :Shabari Nagara Cross Road

Material description : Wet Mix Macadam

Date of Reciept of :08-12-2022

Date of testing :08-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.65	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :08-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Location :Shabari Nagara Cross Road

Material description : Wet Mix Macadam

Date of Reciept of :08-12-2022

Date of testing :08-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.30	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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ವ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :09-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Location :Shabari Nagara Cross Road

Material description : Wet Mix Macadam

Date of Reciept of :09-12-2022

Date of testing :09-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	24.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :09-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Location :Shabari Nagara Cross Road

Material description : Wet Mix Macadam

Date of Reciept of :09-12-2022

Date of testing :09-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :07-03-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Location :Ex Servicemean Road

Material description : Wet Mix Macadam

Date of Reciept of :07-03-2023

Date of testing :07-03-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.55	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON ATTERBERG LIMITS OF WET MIX MACADAM

Date. :07-03-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS:2720 (part 5)-1985 RA 2015, MORTH Table 400-13

Location :Ex Servicemean Road

Material description : Wet Mix Macadam

Date of Reciept of :07-03-2023

Date of testing :07-03-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-13
1	Liquid Limit	23.65	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. :07-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Shabari Nagar Main Road
Material description : Wet Mix Macadam
Date of Reciept of :07-12-2022
Date of testing :07-12-2022

TEST RESULTS

Total Wt. of Aggregates in gms 17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	516	516	3.01	96.99	95-100
22.4	3542	4058	23.70	76.30	60-80
11.2	3164	7222	42.17	57.83	40-60
4.75	3622	10844	63.32	36.68	25-40
2.36	2858	13702	80.01	19.99	15-30
0.6	1540	15242	89.00	11.00	8-22
0.075	1651	16893	98.65	1.35	0-5

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. :07-11-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Shabari Nagar Main Road
Material description : Wet Mix Macadam
Date of Reciept of :07-11-2022
Date of testing :07-11-2022

TEST RESULTS

Total Wt. of Aggregates in gms 17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	521	521	3.04	96.96	95-100
22.4	3586	4107	23.98	76.02	60-80
11.2	3193	7300	42.63	57.37	40-60
4.75	3675	10975	64.09	35.91	25-40
2.36	2924	13899	81.16	18.84	15-30
0.6	1653	15552	90.81	9.19	8-22
0.075	1410	16962	99.05	0.95	0-5

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. :08-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Shabari Nagar Cross Road
Material description : Wet Mix Macadam

Date of Reciept of :08-12-2022
Date of testing :08-12-2022

TEST RESULTS

Total Wt. of Aggregates in gms 17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	523	523	3.05	96.95	95-100
22.4	3753	4276	24.97	75.03	60-80
11.2	3456	7732	45.15	54.85	40-60
4.75	3785	11517	67.25	32.75	25-40
2.36	2971	14488	84.60	15.40	15-30
0.6	1099	15587	91.02	8.98	8-22
0.075	1412	16999	99.26	0.74	0-5

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. :08-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Shabari Nagar Cross Road
Material description : Wet Mix Macadam
Date of Reciept of :08-12-2022
Date of testing :08-12-2022

TEST RESULTS

Total Wt. of Aggregates in gms 17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	525	525	3.07	96.93	95-100
22.4	3685	4210	24.58	75.42	60-80
11.2	3278	7488	43.73	56.27	40-60
4.75	3535	11023	64.37	35.63	25-40
2.36	2769	13792	80.54	19.46	15-30
0.6	1512	15304	89.37	10.63	8-22
0.075	1565	16869	98.51	1.49	0-5

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. :09-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Shabari Nagar Cross Road
Material description : Wet Mix Macadam
Date of Reciept of :09-12-2022
Date of testing :09-12-2022

TEST RESULTS

Total Wt. of Aggregates in gms 17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	528	528	3.08	96.92	95-100
22.4	3783	4311	25.17	74.83	60-80
11.2	3144	7455	43.53	56.47	40-60
4.75	3566	11021	64.36	35.64	25-40
2.36	2742	13763	80.37	19.63	15-30
0.6	1603	15366	89.73	10.27	8-22
0.075	1673	17039	99.50	0.50	0-5

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-26

TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. :09-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13

Location :Shabari Nagar Cross Road

Material description : Wet Mix Macadam

Date of Reciept of :09-12-2022

Date of testing :09-12-2022

TEST RESULTS

Total Wt. of Aggregates in gms 17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	531	531	3.10	96.90	95-100
22.4	3574	4105	23.97	76.03	60-80
11.2	3189	7294	42.59	57.41	40-60
4.75	3720	11014	64.32	35.68	25-40
2.36	2809	13823	80.72	19.28	15-30
0.6	1615	15438	90.15	9.85	8-22
0.075	1550	16988	99.20	0.80	0-5

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. :07-03-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Ex Serviceman Road
Material description : Wet Mix Macadam
Date of Reciept of :07-03-2022
Date of testing :07-03-2022

TEST RESULTS

Total Wt. of Aggregates in gms 17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	527	527	3.08	96.92	95-100
22.4	3574	4101	23.95	76.05	60-80
11.2	3189	7290	42.57	57.43	40-60
4.75	3721	11011	64.30	35.70	25-40
2.36	2810	13821	80.71	19.29	15-30
0.6	1615	15436	90.14	9.86	8-22
0.075	1510	16946	98.95	1.05	0-5

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

Notes:-

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-೨೬

TEST REPORT ON GRADATION OF WET MIX MACADAM

Date. :07-03-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Ex Serviceman Road
Material description : Wet Mix Macadam
Date of Reciept of :07-03-2023
Date of testing :07-03-2023

TEST RESULTS

Total Wt. of Aggregates in gms 17125

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Specified Limits as per MORTH Table 400-13
53	0	0	0	100	100
45	526	526	3.07	96.93	95-100
22.4	3574	4100	23.94	76.06	60-80
11.2	3189	7289	42.56	57.44	40-60
4.75	3725	11014	64.32	35.68	25-40
2.36	2809	13823	80.72	19.28	15-30
0.6	1615	15438	90.15	9.85	8-22
0.075	1515	16953	99.00	1.00	0-5

Remarks: The above tested sample satisfies MORTH Specifications as per Table 400-13

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

TEST REPORT ON AGGREGATE IMPACT VALUE OF WET MIX MACADAM

Date. :07-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Shabari Nagar
Material description : Wet Mix Macadam

Date of Reciept of :07-12-2022
Date of testing :07-12-2022

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	386	375	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	300	292	300	
4	Aggregate Impact value = percent fines	22.28	22.13	22.08	
	100* (W_2/W_1)%				22.16

Remarks: Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Notes:-

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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾ ನಗರ ಪಾಲಿಕೆ

1048, 8th Block Extension ,Gangubai Hangal Road, Sri M. Vishveshwaraiah Layout ,Near Gidadakonenahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(MECHANICAL TESTING LABORATORY DIVISION)
ISO 9001:2015 Certified Company

TEST REPORT ON AGGREGATE IMPACT VALUE OF WET MIX MACADAM

Date. :08-11-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2720 (Part-4)- 1985 RA 2015, MORTH Table 400-13
Location :Ex Serviceman Road
Material description : Wet Mix Macadam

Date of Reciept of :08-11-2022
Date of testing :08-11-2022

TEST RESULTS

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	376	381	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	82	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	300	294	298	
4	Aggregate Impact value = percent fines	21.88	21.81	21.78	
	100* (W_2/W_1)%				**21.82**

Remarks: Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Notes:-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

1048, 8th Block Extension ,Gangubai Hangal Road, Sir M. Visvesvaraiah Layout, Near Gidadakonnahalli
Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date. :07-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12
Location :Shabari nagar Main Road
Material description : Wet Mix Macadam
Date of Reciept of :07-12-2022
Date of testing :07-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	15.20%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	11.35%	
	Combined Flakiness & Elongation	**26.55%**	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಬಿ.ಎ., ಬೆಂಗಳೂರು-24

TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date. :07-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12
Location :Shabari nagar Main Road
Material description : Wet Mix Macadam
Date of Reciept of :07-12-2022
Date of testing :07-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	15.10%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	12.10%	
	Combined Flakiness & Elongation	**27.20%**	

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TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date. :08-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12
Location :Shabari nagar Cross Road
Material description : Wet Mix Macadam
Date of Reciept of :08-12-2022
Date of testing :08-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	15.35%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	11.30%	
	Combined Flakiness & Elongation	**26.65%**	

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ಬಿ.ಬಿ.ಬಿ.ಎಂ., ಬೆಂಗಳೂರು-24

TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date. :08-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12
Location :Shabari nagar Cross Road
Material description : Wet Mix Macadam
Date of Reciept of :08-12-2022
Date of testing :08-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	16.50%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	12.40%	
	Combined Flakiness & Elongation	**28.90%**	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date. :09-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12
Location :Shabari nagar Cross Road
Material description : Wet Mix Macadam
Date of Reciept of :09-12-2022
Date of testing :09-12-2022

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	16.30%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	12.35%	
	Combined Flakiness & Elongation	**28.65%**	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON FLAKINESS & ELONGATION OF WET MIX MACADAM

Date. :07-03-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS:2386(part 1)-1963 RA 2016, MORTH Table 400-12
Location :Ex serviceman Road
Material description : Wet Mix Macadam
Date of Reciept of :07-03-2023
Date of testing :07-03-2023

TEST RESULTS

Sl. No.	Particulars	Test Results	Standards as per Specifications As per MORTH Table 400-12
1	Flakiness Index	16.10%	Maximum allowable Flakiness & Elongation Index for Wet Mix macadam is 35%
2	Elongation Index	12.50%	
	Combined Flakiness & Elongation	**28.60%**	

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TEST REPORT ON COARSE AGGREGATES

Date. :22-11-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main,

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-1)- 1963 RA 2016

Material description : 20mm Coarse Aggregates

Date of Reciept of Sample :22-11-2022

Date of testing :22-11-2022

TEST RESULTS

Total Wt. of Aggregates in gms 5000

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Requirements as per IS 383:2021
40	0	0	0	100	100
20	227	227	4.54	95.46	95-100
10	2661	2888	57.76	42.24	25-55
4.75	1753	4641	92.82	7.18	0-10

Remarks : The above tested Sample Confirms as per IS Specifications.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON COARSE AGGREGATES

Date. :22-11-2022
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main,
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 2386 (Part-1)- 1963 RA 2016
Material description : 40mm Coarse Aggregates
Date of Reciept of Sample :22-11-2022
Date of testing :22-11-2022

TEST RESULTS

Total Wt. of Aggregates in gms 15000

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Requirements as per IS 383:2021
80	0	0	0	100	100
40	512	512	3.41	96.59	95-100
20	8244	8756	58.37	41.63	30-70
10	3314	12070	80.47	19.53	10-35
4.75	2541	14611	97.41	2.59	0-5

Remarks : The above tested Sample Confirms as per IS Specifications.

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SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

TEST REPORT ON CEMENT

Date.	:22-11-2022
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1 st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru -560097
Project Name	:Improvements to Roads and Drains at Hegadenagara Eastern Side BalanceCross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	: EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS-4031 (Part -1, 3, 4, 5 & 6) 1988 (RA-2014)
Material description	: Birla Super OPC 53 grade Cement
Date of Reciept of Sample	:22-11-2022
Date of testing	:22-11-2022

TEST RESULTS

Sl.No	Physical Parameters	Test Results	Requirements as per IS: 269-2020
1	Consistancy	30.00%	-
2	Initial Setting Time	150 minutes	Not Less than 30 Minutes
3	Final Setting Time	315 minutes	Not More than 600 Minutes
4	Soundness by Le - Chatelier's Method	1 mm	Not more than 10mm
5	Fineness by Dry Sieving Method	5.32%	Not more than 10%

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :06.12.2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.11.2022	06.12.2022	8.100	378.9	16.84
2	29.11.2022	06.12.2022	8.001	369.6	16.43
3	29.11.2022	06.12.2022	8.010	372.7	16.56

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TEST REPORT ON CONCRETE CUBES

Date. :07.12.2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main,

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.11.2022	07.12.2022	8.200	378.3	16.81
2	30.11.2022	07.12.2022	8.205	359.8	15.99
3	30.11.2022	07.12.2022	8.206	360.5	16.02

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ಬಿ.ಬಿ.ಬಿ.ಎ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :08.12.2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main,

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.12.2022	08.12.2022	8.200	379.3	16.86
2	01.12.2022	08.12.2022	8.205	374.5	16.64
3	01.12.2022	08.12.2022	8.206	369.1	16.40

Notes:-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಬಿ.ಎಂ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :1.12.2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main,

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2022	21.12.2022	8.196	372.6	16.56
2	14.12.2022	21.12.2022	8.150	369.8	16.44
3	14.12.2022	21.12.2022	8.250	374.7	16.65

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON CONCRETE CUBES

Date. :22.12.2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main,

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2022	22.12.2022	8.198	365.9	16.26
2	15.12.2022	22.12.2022	8.200	376.8	16.75
3	15.12.2022	22.12.2022	8.201	375.7	16.70

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಜಿ.ಬಿ.ಬಿ.ಎಂ.ಪಿ:: ಬಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :27.12.2022
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference :EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 516 - 1959 RA 2018
Material description : Cement Concrete
Age of Concrete : 28 Days
Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.11.2022	27.12.2022	8.100	520.2	23.12
2	29.11.2022	27.12.2022	8.001	525.8	23.37
3	29.11.2022	27.12.2022	8.010	530.7	23.59

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :28.12.2022
Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 516 - 1959 RA 2018
Material description : Cement Concrete
Age of Concrete : 28 Days
Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.11.2022	28.12.2022	8.200	499.5	22.20
2	30.11.2022	28.12.2022	8.205	495.8	22.04
3	30.11.2022	28.12.2022	8.206	500.5	22.24

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಬಿ.ಎ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :29.12.2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 28 Days

Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.12.2022	29.12.2022	8.200	502.5	22.33
2	01.12.2022	29.12.2022	8.205	503.8	22.39
3	01.12.2022	29.12.2022	8.206	504.9	22.44

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಬಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date.	:11.01.2023
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
***Contractor Name**	: M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name	: Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS 516 - 1959 RA 2018
Material description	: Cement Concrete
Age of Concrete	: 28 Days
Grade of Concrete	:M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2022	11.01.2023	8.196	520.6	23.14
2	14.12.2022	11.01.2023	8.150	525.8	23.37
3	14.12.2022	11.01.2023	8.250	515.7	22.92

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON CONCRETE CUBES

Date. :30.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 28 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.3.2023	30.3.2023	8.300	750.9	33.37
2	02.3.2023	30.3.2023	8.338	730.5	32.47
3	02.3.2023	30.3.2023	8.345	730.7	32.48

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಬಿ.ಎಂ., ಬೆಂಗಳೂರು-26

TEST REPORT ON CONCRETE CUBES

Date. :30.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 28 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.3.2023	30.3.2023	8.299	739.4	32.86
2	02.3.2023	30.3.2023	8.350	712.8	31.68
3	02.3.2023	30.3.2023	8.348	736.6	32.74

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON CONCRETE CUBES

Date. :28.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 28 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.2.2023	28.3.2023	8.310	738.7	32.83
2	28.2.2023	28.3.2023	8.312	742.5	33.00
3	28.2.2023	28.3.2023	8.320	726.9	32.31

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON CONCRETE CUBES

Date. :28.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 28 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.2.2023	28.3.2023	8.265	722.3	32.10
2	28.2.2023	28.3.2023	8.300	731.6	32.52
3	28.2.2023	28.3.2023	8.303	742.9	33.02

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :28.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Shankara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 28 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.2.2023	28.3.2023	8.350	751.8	33.41
2	28.2.2023	28.3.2023	8.335	720.3	32.01
3	28.2.2023	28.3.2023	8.312	722.8	32.12

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON CONCRETE CUBES

Date. :09.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.3.2023	09.3.2023	8.295	519.6	23.09
2	02.3.2023	09.3.2023	8.325	501.7	22.30
3	02.3.2023	09.3.2023	8.338	521.1	23.16

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. 09.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.3.2023	09.3.2023	8.307	513.8	22.84
2	02.3.2023	09.3.2023	8.328	515.5	22.91
3	02.3.2023	09.3.2023	8.344	512.6	22.78

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :7.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.2.2023	7.3.2023	8.302	505.8	22.48
2	28.2.2023	7.3.2023	8.301	522.4	23.22
3	28.2.2023	7.3.2023	8.310	518.4	23.04

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :7.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.2.2023	7.3.2023	8.290	519.4	23.08
2	28.2.2023	7.3.2023	8.300	520.5	23.13
3	28.2.2023	7.3.2023	8.345	528.3	23.48

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEST REPORT ON CONCRETE CUBES

Date. :7.3.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 7 Days

Grade of Concrete : M30

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.2.2023	7.3.2023	8.315	513.9	22.84
2	28.2.2023	7.3.2023	8.333	517.5	23.00
3	28.2.2023	7.3.2023	8.340	524.7	23.32

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ಬಿ.ಬಿ.ಬಿ.ಎಂ., ಬೆಂಗಳೂರು-26

TEST REPORT ON CONCRETE CUBES

Date. :12.01.2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main,

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Cement Concrete

Age of Concrete : 28 Days

Grade of Concrete :M20

TEST RESULTS

Sl.No / Identification	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2022	12.01.2023	8.198	535.9	23.82
2	15.12.2022	12.01.2023	8.200	535.8	23.81
3	15.12.2022	12.01.2023	8.201	525.7	23.36

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SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

TEST REPORT ON PRECAST SLAB

Date. :7-12-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** :M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name :Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 516 - 1959 RA 2018

Material description : Precast Slab 100mm thick

Date of Reciept of Sample :7-12-2022

Date of testing : 7-12-2022

TEST RESULTS

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.416	2492.554	1.70	0.960	26.65	13.57	13.98	13.42	16.78
2	50.00	85.00	0.417	2498.545	1.70	0.960	27.78	14.15	14.57	13.99	17.49
3	50.00	70.00	0.395	2873.884	1.40	0.960	28.85	14.69	15.13	14.53	18.16

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ಬ.ಬ.ಪಾಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬ.ಬ.ಬಂ.ಪಿ., ಬೆಂಗಳೂರು-26

TEST REPORT ON PRECAST SLAB

Date. :2-01-2023

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
*Contractor Name :M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa
Project Name :Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name : Shiprama Consulting Engineers
Technical Reference : IS 516 - 1959 RA 2018
Material description : Precast Slab 230mm thick (M20)
Date of Reciept of Sample :2-01-2023
Date of testing :2-01-2023

TEST RESULTS

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	125.00	2.468	2513.88	1.25	1.230	118.81	15.13	15.58	19.16	23.96
2	100.00	110.50	2.134	2458.91	1.11	1.100	119.71	15.24	15.70	17.27	21.59
3	100.00	125.00	2.397	2441.56	1.25	1.150	120.68	15.37	15.83	18.20	22.75

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TEST REPORT ON FINE AGGREGATES

Date. :22-11-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

***Contractor Name** : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS 2386 (Part-1)- 1963 RA 2016

Material description : Sand

Date of Reciept of Sample :22-11-2022

Date of testing :22-11-2022

TEST RESULTS

Total Wt. of Aggregates in gms 1500

Sieve Size in mm	Weight retained (gms)	Cumulative weight retained (gms)	Percentage Cumulative weight retained (%)	Percentage Passing (%)	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	109	109	7.27	92.73	90-100
2.36	177	286	19.07	80.93	75-100
1.18	387	673	44.87	55.13	55-90
600 Micron	276	949	63.27	36.73	35-59
300 Micron	287	1236	82.40	17.60	8-30
150 Micron	164	1400	93.33	6.67	0-10

Remarks : The above tested Sample Confirms as per IS Specifications.

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ಬೆಂಗಳೂರು-24

TEST REPORT ON STEEL

Date. :26-11-2022

Client Name : Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92

Contractor Name : M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097

Project Name : Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.

Letter Reference : EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022

PMC Name : Shiprama Consulting Engineers

Technical Reference : IS- 1786 :2008 IS 1608:2005, IS 1599:1985 (RA-2018)

Material description : Steel (12mm, 16mm, dia TMT Bars "Fe 500") For Culverts

Date of Reciept of Sample :26-11-2022

Date of testing :26-11-2022

TEST RESULTS

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	12	0.898	554	627	17
2	16	1.590	583	659	18

Remarks : The above tested Sample Confirms as per IS Specifications.

Notes:-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬಂಗಳೂರು-24

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

TEST REPORT ON STEEL

Date.	:26-11-2022
Client Name	: Executive Engineer, Bytarayanapura Division,No 2152/20,Defence Colony,Sahakara Nagara,Bangalore-92
Contractor Name	: M/s Sri Venkateshwara Constructions, Prop.Sri Sambashiva, No.28/A, 1st Main, Bullet Krishnappa Layout,Thindlu, Vidyaranyapura,Bengaluru-560097
Project Name	: Improvements to Roads and Drains at Hegadenagara Eastern Side Balance Cross Roads in Ward no: 06 Bytarayanapura Sub Division.
Letter Reference	: EE/BTP/BBMP/E-PMT/10/2022-23, Dated:04-07-2022
PMC Name	: Shiprama Consulting Engineers
Technical Reference	: IS- 1786 :2008 IS 1608:2005, IS 1599:1985 (RA-2018)
Material description	: Steel (8mm, 10mm, dia TMT Bars "Fe 500") For Drain
Date of Reciept of Sample	:26-11-2022
Date of testing	:26-11-2022

TEST RESULTS

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	8	0.408	510	559	15
2	10	0.620	529	573	16

Remarks : The above tested Sample Confirms as per IS Specifications.

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ಬಿ.ಬಿ.ಬಿ.ಎಂ., ಬೆಂಗಳೂರು-24